Personne

RESIME

K. Scott Wilson - GISE



Name: K. Scott Wilson

Education:

B.S. Civil/Structural Engineering

1994 Johns Hopkins University Baltimore, MD 20

Currently Pursuing M.S. - Materials Science Engineering at Johns Hopkins University

Registrations/Certifications:

American Society of Non-Destructive Testing (ASNT) SNT-TC-1A

Ultrasonic Testing - Level III
Magnetic Particle Testing - Level III

Liquid Dye Penetrant Testing - Level III

Eddy Current Testing - Level III

Experience:

Geotechnical Instrumentation/Monitoring. Numerous types of geotechnical instrumentation have been performed including inclinometers, multi and single point borehole extensometers, tape extensometers, VW piezometers, settlement points/plates, railroad track profiling and monitoring, crack monitors, tiltmeters (plate and electrical), and strain gauges. Instrumentation installs have been accomplished on bridges, tunnels (micro and liner plate), roadways, amusement park rides, structures, and railroad tracks.

Vibration Analysis: Seismic monitoring and data analysis has been provided for many projects in both the public and private sectors. Responsibilities have included preconstruction surveys of properties adjacent to demolition/pile driving/ or blasting, supplying maximum allowable vibratory limits, frequency analysis, and public noise and vibration perception studies. Surveys were completed through the use of multiple forms of media to include photographs (digital and film), video, sketches, and audio narrative. Monitoring of induced vibrations was performed through the use of various models of seismographs. Development of project-specific equipment has been completed for several highly sensitive projects. These projects have involved vibration-sensitive computer data collection centers and banking centers which are affected by low amplitude vibrations. The systems designed consisted of PC based data acquisition devices with arrays of accelerometers which collected critical data and analyzed it for internal review. New programs are currently being implemented for clients to include Predictive Maintenance monitoring for large rotating equipment including printing presses, turbine engines, and large manufacturing processing facilities through the use of accelerometers and PC-based data analysis.

Non-Destructive Testing: Managed and supervised numerous projects requiring various methods of testing and analysis for bridges, buildings, and utilities. Programs were instituted for intermittent testing and monitoring of structures and tanks for the determination of deterioration rates and section loss due to environmental concerns. Weld inspections were conducted on critical connections for multi-story buildings through the use of ultrasonic, magnetic particle, and liquid dye penetrant testing. Additionally, state-of-the-art ultrasonic methods of non-destructive testing of composite materials such as concrete were used for the determination of crack extent/depth and to investigate the presence of voids within the materials.



Construction Quality Control: Managed, budgeted, and supervised construction materials and testing services for hundreds of new residential and commercial construction projects. Services included inspection and testing of concrete and reinforcing steel placement, soil compaction, masonry, structural steel, asphalt pavement, calsson installation, and foundation bearing analyses.

Relevant Projects include the following:

WOODROW WILSON BRIDGE (MDSHA Contract PG5175173) (July 2003-August 2005) — Performed monitoring and instrumentation for the protection of the existing bridge during pile installation activities. Numerous instruments were utilized including inclinometers, piezometers, tiltmeters, seismographs, accelerometers, and optical monitoring devices. Mr. Wilson is the MDSHA approved GISE (Geotechnical Instrumentation Systems Engineer) for the project.

MARYLAND AVENUE BRANCH INTERCEPTOR (Balt City Contract #799) (July 2004 – July 2005t) – Developed, installed and monitored various types of geotechnical/geophysical instrumentation on this project including multi-point borehole extensometers, inclinometers, piezometers, tape extensometers, optical monitoring, laser guided tunnel profiling, and optical monitoring of railroad tracks. Preconstruction surveys were also performed on all adjacent structures. This complicated project involved the installation of new utility piping adjacent to several structures and an historic railroad tunnel. The instruments were utilized to monitor the effects of microtunneling and open cut excavations on the surrounding structures and railroad tunnel.

WOODROW WILSON BRIDGE (MDSHA Contract PG3415173R) (July 2001-August 2002) – Performed monitoring and instrumentation for the protection of the existing bridge during pile installation activities. Land and water-borne instrumentation was installed at each existing piling location to monitor the bridge for movement and settlement in three planes. Numerous instruments were utilized including tiltmeters, seismographs, accelerometers, and optical monitoring devices.

ROUTE I-95 EMERGENCY SLOPE REPAIR (MDSHA) (November 2003-December 2003) — Provided consulting, installation, and monitoring of a severe slope failure adjacent to I-95 in Baltimore County. Equipment utilized included tiltmeters, piezometers, and optical surveying methods to monitor the slope failure and subsequent repairs to the slope.

CATHEDRAL STREET EMERGENCY SINKHOLE REPAIRS (Balt City Contract #SC834) — (August 2004—February 2005) — Consulted on this fast track emergency repair of a sinkhole that resulted from a broken sewer main. Services included vibration consulting and the monitoring of retention structures during the repair. Instrumentation included seismographs, tape extensometers, laser profiling, and optical surveying methods as well as preconstruction surveys on buildings.

MD ROUTE 43 EXTENDED — (MDSHA BA8475171) — (October 2003- Present) Ongoing consulting for this project included the performance of pre & post construction surveys, vibration monitoring, design and monitoring of piezometers and water level sensors.

NASD/NASDAQ HEADQUARTERS (Rockville, MD) (March 2000-May 2001) — A project specific accelerometer monitoring system was designed and built for this project. A data collection center for the NASDAQ Stock Market was subjected to ground-borne vibrations from adjacent construction activities. The data center mainframe computers had vibration-limiting devices that would force the system into an unproductive mode, costly for even minutes. The PC based monitoring system included

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an array of accelerometers attached to structural members of the building and to each of the main frames, a total of 96 accelerometers were installed throughout. Contractually, Mr. Wilson remained on-call 24 hours per day via a pager connected to the system for the immediate analysis of events. This monitoring system remained in place for a nine-month duration. Additionally, several seismographs and tilt meters were utilized to monitor particle velocities and movements on the structure.

BROAD CREEK BRIDGE REPLACEMENT (MDSHA) (Feb 1998-August 1998) - Performed numerous Preconstruction Surveys on dwellings adjacent to bridge demolition/implosion activities. Full time vibration monitoring was provided to protect the existing dwellings from damages during blasting and implosions.

I-695 WIDENING & RECONSTRUCTION (MDSHA) – BALT BELTWAY (NW) (August 1998 – Present) Preconstruction Surveys were performed on over one hundred dwellings surrounding the construction project. Intermittent vibration monitoring was performed during periods of heightened construction activities. Post construction surveys were conducted in each unit following the end of construction.

ROUTE 1 RECONSTRUCTION (MDSHA)— HYATTSVILLE, MD (Nov 1999-April 2000) — Numerous commercial structures and residential dwellings were evaluated using Pre & Post construction surveys. Vibration Monitoring was conducted during periods of heightened vibrations.

ROUTE 140 STREETSCAPE (MDSHA)—Reisterstown, MD (Feb 1997-Nov 1998) — Sidewalks and roadways were replaced along this route during a streetscaping project. Over 150 Preconstruction Surveys were performed on units adjacent to the construction. Active vibration monitoring was necessary due to the close proximity of the structures to the construction. Postconstruction Surveys were performed following the completion of the project.

PEACHBOTTOM NUCLEAR POWER PLANT (Aug 1998-Dec 1998)— Performed vibration analysis during pile driving operations adjacent to nuclear reactors and related computer systems. Two separate monitoring systems were installed to include multiple seismographs and a PC based accelerometer system. The accelerometers were utilized to monitor the vibration sensitive computer system while the seismographs monitored the building structure and related components.

MBNA BANK HEADQUARTERS (Jan 1997 - Dec1997) — Mr. Wilson built a project specific accelerometer monitoring system for this project. A credit processing mainframe computer system was subjected to ground-borne vibrations from adjacent pile driving and explosive blasting operations. The computer had vibration sensors that, if triggered, would send the computers offline. The PC based monitoring system included an array of accelerometers attached to the main frames as well as the surrounding structures. An automatic dialing and alarm notification device attached to the PC would signal impending damaging vibrations so the pile driving operations could be temporarily suspended. This monitoring system remained in place for a six-month duration. Additionally, several seismographs were utilized to monitor particle velocities on the structure.



SIX FLAGS AMERICA THEME PARK (Sept 1993 – Present) - Has staffed and managed the Quality Control program for this theme park for twelve years. The program consists of various methods of Non-Destructive Testing for the amusement park rides. Systems are currently being implemented wherein accelerometers are permanently installed to collect biodynamic data from several of the rollercoasters and amusement attractions.

BALTIMORE GAS & ELECTRIC CO. (Jan 1992 – Jan 1997) - Served as Blasting Consultant for this utility during five 1-year contracts. Provided monitoring and vibration measurement for all blasting and heavy construction activities adjacent to B.G.& E. structures and utilities. Blasting plans were compiled for the contractors at several of the projects.

JEFFERSON AND LINCOLN MEMORIALS (May 1991-April 1992)- Roof replacements and general renovations for each of these historic monuments were sensitive due to the historic nature of these monuments. Vibration monitoring devices were placed throughout the memorials, particularly along the ornate carved stone adorning the exterior. Mr. Wilson provided the contractor with maximum levels of vibration that may be caused by the demolition processes to prevent the possibility of further damages to the structures.

SEVERN RIVER BRIDGE Annapolis, Maryland (Sept 1990-Feb 1992) - Preconstruction surveys for surrounding structures were performed prior to the new bridge construction. Documentation and sketches of these existing conditions were utilized to monitor buildings for damage and/or movement during pile installations. Strategically placed seismographic monitoring equipment measured vibrations caused by the construction activities, the results of which provided direction as to methods and energies used by the pile contractor.

MCI COMMUNICATIONS (Sept 1994 – Sept 1995)- Vibrations caused by railway traffic were monitored and analyzed for possible damage to motion sensitive switching devices. Materials specifications were compiled and sensitivity ratings were applied. Vibration thresholds were compiled based upon information received by the manufacturers.

MARYLAND LIGHT RAIL (Phases I & II) (Sept 1996-Nov 1998) Timonium, MD - Managed and performed various methods of non-destructive testing on the rail track. Methods of testing included Ultrasonic, Magnetic Particle, and Brinell Hardness Testing. Calibrations consisted of Distance Amplitude Corrections (DAC) as required by the contract.

MARYLAND MASS TRANSIT AUTHORITY – (April 1989 – Sept 1989)Elevated Concrete subway rails were evaluated using ultrasonic pulse velocity testing for determining crack extent and depth. Further evaluations were conducted using fiber optic and borescope methods. Results were qualified using additional destructive testing methods.

WARREN ROAD BRIDGE - (Nov 1997-April 1998)Ultrasonic Testing of various critical bridge members was conducted to determine section loss of structural steel framing due to environmental exposure and corrosion.



IRS HEADQUARTERS New Carrollton, MD (Jan 1993-April 1995)- Was successful bidder for this 1.2 million square foot, three structure, 9000 ton federal project. Scope of services provided on this project included materials testing (concrete, soil, structural steel, non-destructive evaluations), supervision, management, and contract negotiations through the federal government via construction manager.

POSTAL SQUARE Washington, D.C. (Nov 1991-Feb 1994) - Managed a complicated rehabilitation involving the addition and removal of structural steel members. Various methods of non-destructive testing were conducted including ultrasonic, magnetic particle, and liquid dye penetrant testing.

U.S. BUREAU OF PRINTING AND ENGRAVING (June 1989-Jan 1993)- An on going program was set-up for the ellent to provide intermittent ultrasonic thickness and corrosion testing for several full concentration acid storage tanks. This process extended tank life and met safety concern requirements.

Other notable projects include:

FBI Headquarters - Washington, D.C.

Pentagon Renovations - Washington, D.C.

University of Maryland at Baltimore - Medical Biotech Institute - Baltimore, MD

University of Maryland Medical Systems - Homer Gudelsky Building - Baltimore, MD

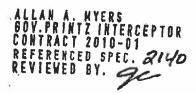
Johns Hopkins Comprehensive Cancer Center

Baltimore Ravens NFL Stadium

Delaware Route 3 Bridge Replacement Project

Membership/Affiliations:

American Society of Civil Engineers (ASCE)
American Welding Society (AWS) - Associate
American Society of Metals (ASM)
American Society of Testing and Materials (ASTM)
Member Committee F24 - Amusement Rides and Devices
American Society For Non-Destructive Testing (ASNT)
International Society of Explosives Engineers (ISEE)
The Vibration Institute
Washington Area Railway Engineering Society (W.A.R.E.S.)



Personnel

RESUME

M. Keith Wilson-Field Technician



RESUME

Connecticut

Name: Michael Keith Wilson

Education:

Bachelor of Arts

1987

University of Maryland
College Park, MD
College Pa

Registrations/Certifications:

American Society of Non-Destructive Testing (ASNT) SNT-TC-1A

Ultrasonic Testing - Level II

Magnetic Particle Testing - Level II

Eddy Current Testing - Level II

Certified GPR Operator

Experience:

Non-Destructive Testing: Staffed and managed numerous projects requiring various methods of testing and analysis for bridges, buildings, utilities and amusement park rides. Weld inspections were conducted on critical connections for multi-story buildings through the use of ultrasonic, magnetic particle, and liquid dye penetrant testing.

Vibration Analysis; Seismic monitoring and data analysis has been provided for many projects in both the public and private sectors. Responsibilities have included preconstruction surveys of properties adjacent to demolition/pile driving/ or blasting, supplying maximum allowable vibratory limits, frequency analysis, and public noise and vibration perception studies. Monitoring of induced vibrations was performed through the use of various models of seismographs. Has assisted in the development of project-specific equipment for several highly sensitive projects. These projects have involved vibration-sensitive computer data collection centers and banking centers which are affected by low amplitude vibrations. The systems designed consisted of PC based data acquisition devices with arrays of accelerometers which collected critical data and analyzed it for internal review. New programs are currently being implemented for clients to include Predictive Maintenance monitoring for large rotating equipment including printing presses, turbine engines, and large manufacturing processing facilities through the use of accelerometers and PC-based data analysis.

Relevant Projects include the following:

NASD/NASDAQ HEADQUARTERS (Rockville, MD) — Assisted in the fabrication and installation of an accelerometer system used to protect a data collection center for the NASDAQ Stock Market. The PC based monitoring system included an array of accelerometers attached to structural members of the building and to each of the main frames, a total of 96 accelerometers were installed throughout.

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Additionally, several scismographs and tilt meters were utilized to monitor particle velocities and movements on the structure.

WOODROW WILSON BRIDGE (Prince George's County, MD) (July 2001-August 2002) — Performed monitoring and instrumentation for the protection of the existing bridge during pile installation activities. Numerous instruments were utilized including tiltmeters, seismographs, and optical monitoring devices.

MARYLAND MARC TRAIN LINE - FREDERICK, MD - Performed various methods of non-destructive testing on the rail track. Methods of testing included Ultrasonic and Magnetic Particle. Calibrations consisted of Distance Amplitude Corrections (DAC) as required by the contract.

MARYLAND LIGHT RAIL – Baltimore, MD – Numerous welds were tested non-destructively in the Howard Street track repair project. Methods included magnetic particle and ultrasonic methods. Calibrations were providing using DAC methods.

SIX FLAGS AMERICA THEME PARK - Has performed NDT pursuant to the Quality Control program for this theme park for four years. The program consists of various methods of Non-Destructive Testing for the amusement park rides. Systems are currently being implemented wherein accelerometers are permanently installed to collect biodynamic data from several of the roller coasters and amusement attractions.

BETHLEHEM STEEL - Sparrows Point, MD - Performed various types of non-destructive testing during the rehabilitation of the blast furnace and related crane system.

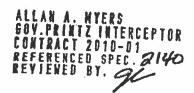
MORGAN STATE UNIVERSITY FINE ARTS BUILDING — Towson, MD. — Was responsible for conducting non-destructive testing for hundreds of full penetration welds. Methods included ultrasonic, magnetic particle, and dye penetrant testing.

WILMINGTON MANOR GARDENS (Wilmington, DE) — Provided vibration monitoring of numerous commercial and residential dwellings during adjacent pile driving operations. Pre and Post Construction surveys were conducted on several structures for the purpose of delineating the effects of the vibrations onto the buildings.

UNIVERSITY OF DELAWARE (Dover, DE) – Managed the vibratory monitoring of multi-story structures and transmission antennae during adjacent sheet pile installations. Several methods of pile installations were necessary to protect the structures from damage.

O STREET RETAINING WALL RECONSTRUCTION (Washington, D.C.) — Provided Pre and Post Construction surveys for numerous structures during the reconstruction of a dilapidated forty-foot high retaining wall. Intermittent vibration monitoring was performed on this project throughout the duration.

ROUTE 1 RECONSTRUCTION (MDSHA)— HYATTSVILLE, MD — Numerous commercial structures and residential dwellings were evaluated using Pre & Post construction surveys. Vibration Monitoring was conducted during periods of heightened vibrations.



BOND STREET RECONSTRUCTION (MDSHA)— BELAIR, MD — Numerous commercial structures and residential dwellings were evaluated using Pre & Post construction surveys. Vibration Monitoring was conducted during periods of heightened vibrations.

Membership/Affiliations:

American Welding Society (AWS) - Associate
American Society of Metals (ASM)
American Society of Testing and Materials (ASTM)
American Society For Non-Destructive Testing (ASNT)
International Society of Explosives Engineers (ISEE)



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REVIEWED BY.

SHIGH W SHADE

SIMOSON

Personnel



EDWIN F. WILLIAMS COT Project and Lab Manager

Years of Experience:

GTA:

10

Education:

University of Delaware, B.S. Environmental Science and Geology, 2007

Certifications:

Nuclear Gauge Certification
40 hour OSHA Certification
NICET Level 1- Soils, Asphalt,
Concrete
NICET Level II- Laboratory
NICET Level III- Construction,
Exploration
State of Delaware CCR. \$4238
WACSL Foundation Inspector
PTI Level I

Professional Affiliations:
American Society of Civil
Engineers

American Concrète Institute



Geo-technology Associates, inc. GEO-TECHNOLOGY ASSOCIATES, INC.

Qualifications:

As a Project Manager with Geo-Technology Associates, Inc., Mr. Williams is responsible for providing training and project management on several jobs for several technicians. His management responsibilities consist of reviewing daily field reports, drafting engineering reports, troublethooting field issues, coordinating jobs and technicians. In addition, Mr. Williams provides sophisticated inspections in the field and laboratory including structural steel, matomy and concrete observations, deep foundation systems, soil stabilization, and observation of subsurface explorations including test borings/test pits, and is proficient in laboratory testing following ASTM and AASTTO standards.

As lab manager Mr. Williams is responsible for review and compilation of laboratory test results, review of budgets and billing, training, of personnel, purchase and maintenance of equipment and conduction of in-house quality assurance/quality control programs to chaused about the proficiency with ASTM standards

Some of Mr. Williams's recent experience providing constructionmonitoring services includes the following:

Cecil County Dredge Pond, Cecil County, Maryland-Provided soils testing and analysis for a 15 acre dredge storage pond.

Delaware Department of Transportation Materials and Restarch Facility, Devier, Delaware Performed soils and concrete testing, foundation and steel inspections for the new 32,000 square foot Materials and Research facility.

CIBA, New Castle County, Delaware- Provided sub-surface exploration for the additions to an existing warehouse. The exploration consisted of drilling SPT borings, in level C personal protection, over a Superfund Sine.

Diver Chevrolet, Wilmington, Delaware- Performed construction observations for driven pipe piles through a capped brownsfield site for the used sar lot. Provided calsson and foundation inspections, soils testing, soil stabilization recommendations, rebar and post tensioning inspection, and concrete testing for a 4-story parking garage and service

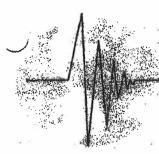
Newark Free Library, Newark, Delaware- Provided sub-surface exploration and single ring infiltrometer testing for building addition and sub-surface (SWM) facility

Layer Property, Delaware County, Pennsylvania- Provided soil testing and provided soil stabilization recommendations in the field using geotextile fabric.

Legenta of Frog Hollow, Middletown, Delaware-Resident Inspector for new residential development. Provided foundation inspection, soils testing and analysis, and underground tunnel construction observation. Also provide residential foundation inspections for the 200 home subdivision.

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Equipment/Details

ATTACHMENT A

Deep Benchmark

Acker Drill Rig Curb Box/Grout Mix

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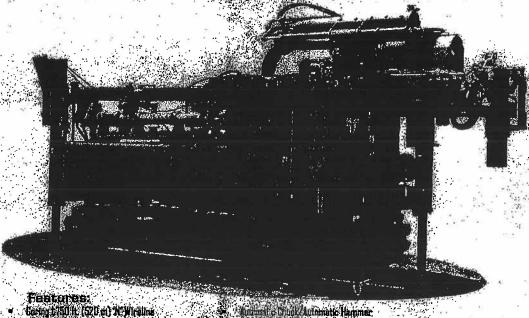
Bullistin 44



Featuring the

Alkaviseele, High-L

The BUIL-XLB is specifically similarin for fast and economical soft investig tion, ground water mentioning or oc drilling with residents must greatly for easy screen in difficult carrent.



- Count 200 ft (520 et) N. Wirdline
- 8 500 fb. (8 8 9 0 kg) Hirist
- 8 Speed EVO S REV to 1,000 RPVa
- Spindle Tourne 5,000 (Cibe (6,786 (4m)
- Bit (183 m) Stroke

- EMDO Dis (s 1907ka) Poll/Thrust Aystrophosileithic eind Engline Ley Der Leinist Shife Head

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Bulletin 44



SOIL-XLS STANDARD FEATURES!

- Power Unit 97 H.P. diesal engine with 12-voli electric ster, hydraulically adjustable for constant operation on a 45 degree alope. Other power options available on request,
- Feed Machanism The main feed consists of double acting chiah sinks specianism connected to a hydraulic cylinder with 72° stroke and ca-pable of 11,000 pounds upward thrust and 11,000 pounds pull down. Residance 0-72 FPM up and down. 8.
- 'OHM Entrei Telten from pidme, mover through in predeum/idea-constituted pistos pump, and single-fixed volume geer pump.
- Di. (4) Speed Drift Head - 3-5/8" Open Spindle.

1st geer (F-56 RPM @ 5,000 RPbs. torque)
2rd geer (F-56 RPM @ 1,297 fl.fbs. torque)
4th geer (F-56 RPM @ 156 RPM & 1,297 fl.fbs. torque)

(8) Speed Drift Head - 3-6/8" Open Spinits.

1st year (0-20 PPM @ 3,020 ft.76s; torque) 2nd year (0-262 RPM @ 1,462 ft.76s; torque) 3rd year (0-454 RPM @ 788 ft./bs; torque) 4th year (0-900 RPM) @ 489 ft/bb; torque) Two (2) speed hydraulic motor option up to 1,000 RPM in 16ph range.

- Mast Welded rectangular structural steet tube construction that supported and guides the relation of feed compensates. Positioned with one (1) typicable cylinder and rigidly held in the welded position for this industrial feed to the travel position for the travel position for the travel process which is not degree vertical drilling. Also includes meet durn process which is the travel is the travel feed to the travel feed to the travel position for the travel process and tra
- ·F, Side Hand - 12" drill heed movement.
- Drift Pfarms -All weided steet construction supports the power unit, Militi, cordiol punet, winches and calleed. 8.
- Auger Gulde H.
- Track Meanting: The entre critics mounted on a structure start hune introduction by high quality crewier fracts with independent re-versible hydrautic make drive. Full function racks remarks control and pending control operations with a energency shudown. If.
- 12. Mounting. The entire did is mounted on a structural ideal. Trucks which training and or ATV mounted.

SOIL-XLS OPTIONAL FEATURES:

- 1. Cath and Holst Hydraulically powered cargo type holet, 10" distribute.
- Auxiliary Hoist 2,500 fb. or 4,500 fb. planelary type with 75 ft. of 5/15" cable. 2.
- Make Drum Hefut. 8,500 to, plane tary type with 180 ft. of 56° cable, includes rigid reverse. (Recommended for sidd unit to move under its 3.
- Guick Disconnect Adaptor Li-Joint type for sugers, 1-6/8' heir or 2" heir or inglicitype for rod/casing (specify size).
- 2" Salval For air, mud or water. Attaches directly to the top of the spindle. 5
- Water Purisp Hydrostatically driven Triplex Type 20:35 GPM with infinitely rainiple controls from the operator's station. Mayno Type 31.6, 31.8 or equal.
- Wireline Halet Hydrausic powered used for wireline core disling. 1,000 ft. of 187 table. Litting capacity is 800 lbs. or 2,500 lbs. modifiery 7,
- 8. Frunt Winch - Hydraulically driven, front mounted with 20,000 lb. capacity.
- Low Clearance Sheeve:Block Assembly For use with cetheat spanytion by low pulling shadlons (requires removel of main crawn block). 9.
- Augus Rick
- 11. Water Yards
- Autometic Chuck

Contact factory for additional details. A complete line of optional accessories are available.

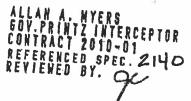


Policy The policy of Action Diff Co., Inc., being one of continue to previous or falses continues.

P.O. Box 830, Scranton, PA 18501

Toll Free: 800.752.2537 Fax: 570.586.2659

E-Mail: sales packerdrill.com Website: www.ackerdrill.com



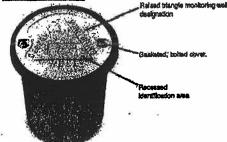


ROUND CAST BOLTED MANHOLE

Application -

Applications where limited access and maximum security is needed.

Part Number - 65:WC





mbritoring well designation. Clearly marked cast iron cover with monitoring well designation in accordance with API -RP-1615. Recessed I.D. wrap allows information such as - date installed, depth etc. with en optional I.D. plate.

Festuros -

- White polyments coated cover for non-corrosion:
- ✓ 2 Tush-mount stainless steel bolts for added security and Intifed access
- Gasketed for water and contamination protection
- ✓ Carries H-20 load rating

Construction -

- Cast from cover and ring
- · 2 flush mount stainless sleet botts · Heavy-duty cast libh ring and cover Galvanized steel skirt
- · Buria-N gasket

 - Polymeria coaling

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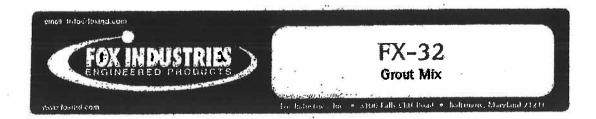
Model	Size	Weight (lbs.)	A	₿-	C	D
65-8075-WC 65-8012-WC 65-1212-WC 65-1280-WC	6" x 7-1/2" '8" x 12" 12" x 12" 12" x 8"	11.4 18.5 30.5 26.6	9-1/2" 13-3/8" 13-3/8" 8-3/8"	8-1/4" 8-1/4" 12-1/4" 12-1/4"	8-3/8" 8-3/6" 12-3/8" 12-3/4"	B-1/2" B-1/2" 13-1/2"

Perf Numbers	Description		Part Numbers	Description
1300-246	Pop Rivet	3.	65-18-0	12" Gasket
60-12-03	12" x 6" Skirt		65-6012-A1	8" [Ring only
60-6-03	6" x 6" Skirt		65-8012-CO	8" Cover only
66-1212:A2	12" Rivet only		65-8-C1	8" X-12" Skirt
65-1212:CO	12" Cover only		85-8-G	8" Gasket
66-12-02	12" x 12" Skirt		65-8T	Bolt

UNIVERSAL YALVE COMPANY

476 Schiller Street, Elizabeth, NJ 07206 s (600) 223 0747 s (606) 227 0006 s Fact (608) 251-0068 s universalvalve.com O 2008 Languist Mary Continues Int.

> CONTRACT 2010-01 REFERENCED SPEC. 2140



DESCRIPTION:

FX-32 Grout Mix is a specifically formulated mixture of portaint cement, fine aggregates, and additives. FX-32 Grout Mix, when blended with coarse aggregate and mixed with water, provides a durable, low-shink-concrete.

WHERE TO USE:

Like where small quantities of concrete are required milling transit mix too costly. Use to make sidewelks, steps, footings, plints, etc.

PHYSICAL PROPERTIES:

Meets of exceeds the requirements of ASTM C-387 Grout - Compressive Strength (ASTM C-409) 24 hours 4,000 pcl

7 days 6,700 psi Concrete - Compressive Strength (ASTM C-39)

24 hours 26 days 3,600 pei 7,000 pei

Initial Set approximately 2 hrs. @ 70°F

MIXING:

Grout-Blend 1 -- 50 lb. beg of FX-32 Grout Mix with approximatrly 3/4 gallon of potable water. Add additional water to bring to desired consistency and place. 120 ourses of visiter will added or exceed the test results shown above.

Concrete - Blend 1 - 50 lb. bag of FX-52 Grout Mix with approximately 30 lbs. of course aggregate (about 1/2 of five gation bucket) and 3/4 gation of potable water. Add additional water to bring to decired consistency and place. A gallon of water will equal or exceed the test results shown abors, As water is increased, strength will decrease; therefore use only as much water as is required to place and finish the concrete.

YIELD:

Grout 1 - 50 lb, bag when mixed will yield approximately 0:42 cubic lest of grout.

Concrete - 1.50 lb bag when mixed with 30 lb, of coarse aminigate will yield approximately 0.65 cubic feet of concrete.

PACKAGING:

50 b: multivel waterproof bag

CAUTION:

WARNING! Contains Free Silice & Portland Cement, Do not breethe dust: May cause delayed lung injury (silicosis). Follow O.E.(I.A. safety and health standards for crystaline-silica (quigita). Centrest powder or freshly-mixed-concress, grout or thomar may cause akin injury. Avoid contact with sidn and "whith exposed skin areas promptly with water. If any cement powder or mixture goes into the eyes, risse immediately and repeatedly with water and get prompt medical attention.

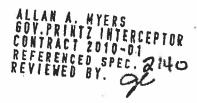
FOR INDUSTRIAL USE: ONLY: KEEP AWAY FROM CHILDREN. 8/2006

PHONE 410-243-8856

TOLL FREE 888-760-0369

FAX 410-243-2701

Warranty: We werrant our materials to be of good quality and will replace any materials properties are. We believe that the technical internation provided is reliable and that instance will perform to your satisfacilism. However, we cannot quadrate a final needle because of the many possible variations in field conditions and application procedures.



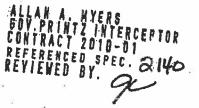
12

Equipment/Details

ATTACHMENT A

Surface Settlement Markers

1/4" Double Expansion Anchors





Product Listing, Sizing and Specifications

Double Expension Anchors

Zamac 7 Alloy

Catalog Number	Anchor Size	ANSI BK Size	Cleanance. Hole	Sierre Lungth	Molmum Embedment		Ultimate Holding
49-33-1600	1/4*	1/2"	.6/16°	1	1 1/4"	50/500	2.340 lbs.
025-2200	3/6"	3/4"	7/16	1 9/18	1 3/6	50 / 250	4.900 lbs.
43-35-4000	5/8:	1	1115	2"18"	2 1/2	257100	13,600 lbs
	有多数数据	深近郊温泉	The state of the same	大学的	A Contract		TO A

^{*} EHIMade-Holding - The Equine shield are for corressible jurposes, to help in enchar shiection only. Ultimate load limits should be prepared by a registered design prefer sheats where required by assayer of the jurisd



16



ATTACHMENT A

Geosonics 3000LC Seismograph



SSU 3000LC

The SSU 3000LC is a convenient, easy to use and complete vibration and sound monitoring system designed with the user in mind. Key features include an enhanced tactile keypad, heavyduty twist-lock metal cable connectors and a heavy-gauge aluminum enclosure with baked enamel finish. The four-fine by 20-character LCD and monu-driven programming makes on-site scrup easy and permits the user to view numerical waveform data and monitoring results in the field. The timesaving template utility can store repetitive setup information for quickly deployed instruments with pre-defined configurations. The internal lead-acid battory is long tasting and easily charged using the included AC adapter. An integrated timer turns the unit on and off at pre-selected times to conserve hattery power. The 2hertz, high-pass microphone and all other accessories fit-easily into the tough, structural-resin carrying case.

The SSU 3000LC has three recording modes: 1) triggered either seismic or sound, 2) continuous (histogram) and 3) sustained trigger. The internal memory can store up to 220. 1-second events. Sustained trigger mode delays processing and permits collection of consecutive 15-second intervals of waveform data up to a cumulative total of approximately 4.2 minutes. Data can be collected in either imperial (US customary) or metric utils. The included basic compliance software package can be used for data analysis and preparation of standard or customized reports.

GeoSonics is a leader in seismograph innovation, design, manufacturing and vibration consulting. Because we use the ulprhent we design, a user-friendly interface, ruggedness and reliability are not just goals - they are standards.

GeoSanics ... always a step ahead!

Features & Specifications









STANDARD FEATURES:

- EXAMBERE PEATURES:

 External prophone metre (SEE density recommendations):

 Four-line by 20-character LCD and 16-leg-alphanumeric herped for on-the setue and data display:

 Heavy-dusy hield-lock metre cable in balancian sense firsh,

 Heavy-dusy hield-lock metre cable connectors.

 Internal rechargeage land and biblioteles,

 Esternal LED Indicator (Problemging & recharge status,

 Flexible interfacin for customic configuration).

 Two (2) Indextendam internal hield and an administration.

- Two (2) Independent inteshold sterm output ports:
- GENERAL

RECORDER MODES: Sales de Tribger:

Rappe Accuracy: Galibration: Range (Linea nge (Linear); angle (3 dB); Accuracy; Cultication;

weggirf brac

Vibration Data: Recording Intervets: Sound Data (Linear): Matiple Event Recordings:

- \$TANDARD FEATURES (Continued):

 PC serial port interface for downloading events data

 Up to 220, 1-second severism data recordings
 (up to 50, 5 second severism data recordings).

 GPS acquisition feature (NEMA 108 comparible).

 Six (6) template locations for recurring sat up data.

- imperial and metric operation.
 Besic compliance reporting software package included.
- Designed & manufactured in the USA.

OPTIONAL ACCESSORES:

- Hydrophones (instrument modifications required).
 Accelerometers to 50 g/s or higher (instrument
- modifications required).
 Amplifiers (10x-100x).
- Optically isolated dual starm control for dialers, pagers and remote starm notifications.
 Advanced setsmic analysis softwere package,

- Extended warranties & service contracts Numerous custom configurations - call for details.

0.0025 Interc: (0.06 remisec.):
Up to 6.120 Interc. (130 mm/sec.)(other ranges available).
2 to 250 Hz (3 dB) / 2 to 1.000 Hz (Nyquist).
Up to 2,000 / second / channel.

5% within one year (multi-frequency celibrated).

574 Vern one per internal dynamic. 78 to 142 GB (other ranges available). 2 to 250 Hz (3 dB) / 2 to 1,000 Hz (Nyquist). a 10% or 1dB within one year (multi-frequency calcivated)

\$10% of 10d winth one year (muss acquery cases whem all electronic.

Peak particle velocity and frequency for L, 1 & V. Selectable: 1 to 60 seconds.

78 to 142 86 fother ranges available).

Consecutive waveform recordings up to 4.2 minutes.



P.O. Box 546 Warrendale, PA 15086 Ph. 800-892-8395 Fax 724-834-2999



GOVERNOR PRINTZ INTERCEPTORS – SECTION I RESPONSE ACTION PLAN

The following Response Action Plan is in correlation with identification of alerts as referenced in specification section 2140 – Geotechnical & Structural Monitoring Instrumentation.

The Project Team members responsible for this Plan are as follows and in the order of emergency contact:

Jessie Ceglowski – Project Manager	(610)960-0358 Cell	(610)873-0792 Home
Doug Parsons - Project Superintendent	(443)250-6875 Cell	(610)838-6316 Home
Rick Tisa – General Superintendent	(410)808-4283 Cell	(==,,==================================

- 1. All site equipment will be left onsite. The operating personnel are on call for any site emergencies. Personnel will be rotated for off hours based on availability.
- 2. Any structural issues will be reviewed by Earth Engineering, Jay McKelvey, to determine the proper course of action as agreed to by Parsons Brinckerhoff, New Castle County and/or DelDot as necessary.
- 3. Contingency plans can not be fully identified until the specific circumstances can be reviewed

I. LEVEL 1 ALERT THRESHOLD RESPONSE

1. AAM Project Manager will notify Robby McDonald immediately upon receiving any indication of movement above the following:

a. Surface Settlement markers	.375 inch
b. Inclinometer Casing Movements	N/A
c. Tiltmeter Plates	N/A
d. Crack Monitoring Pin	N/A
e. Seismographs	N/A

2. Engineer and AAM Project Manager will determine the likely cause of movement and determine if ceasing the work activity is necessary.

II. LEVEL 2 UPSET LIMITING RESPONSE

1. AAM Project Manager will notify Robby McDonald immediately if any of the monitoring instrumentation exceeds the following movement:

a. Surface Settlement Markers	.5 inch
b. Inclinometer Casing Movements	N/A
c. Tiltmeter Plates	N/A
d. Crack Monitoring Pins	N/A
e. Seismographs	See note below regarding Level 2



- 2. Any operation that is deemed by the Engineer to have caused the movement will cease immediately.
- 3. Any areas found to be unstable in regard to groundwater or structural integrity will be stabilized immediately.

RESPONSE ACTION PLAN SPECIFIC TO GAS MAIN RISK:

Based on TJA's calculations, it is anticipated that the peak particle velocity will be above the Level 2 threshold of 2.0 ips at the closest pipeline. Based on our understanding of the condition of the gas mains, this vibration level will not cause any damage. Therefore, AAM is requesting to waive the Level 2 threshold alert for seismograph monitoring that is listed in the specification.

AAM will not be authorized by either Delmarva or Linde to operate any valves onsite. We have been instructed to contact the following representatives in case of emergency and they will provide immediate gas flow restriction:

Delmarva Gas - 24" High Pressure Main

- 1. Call 911 immediately.
- 2. Call Delmarva Emergency Leak Hotline at (302) 454-0317. Delmarva indicated that the Fire Marshall would dictate an evacuation radius if necessary. In the event that the Fire Marshall does not dictate an evacuation radius for damage, AAM will evacuate all residences and traffic within 500' of the damage.

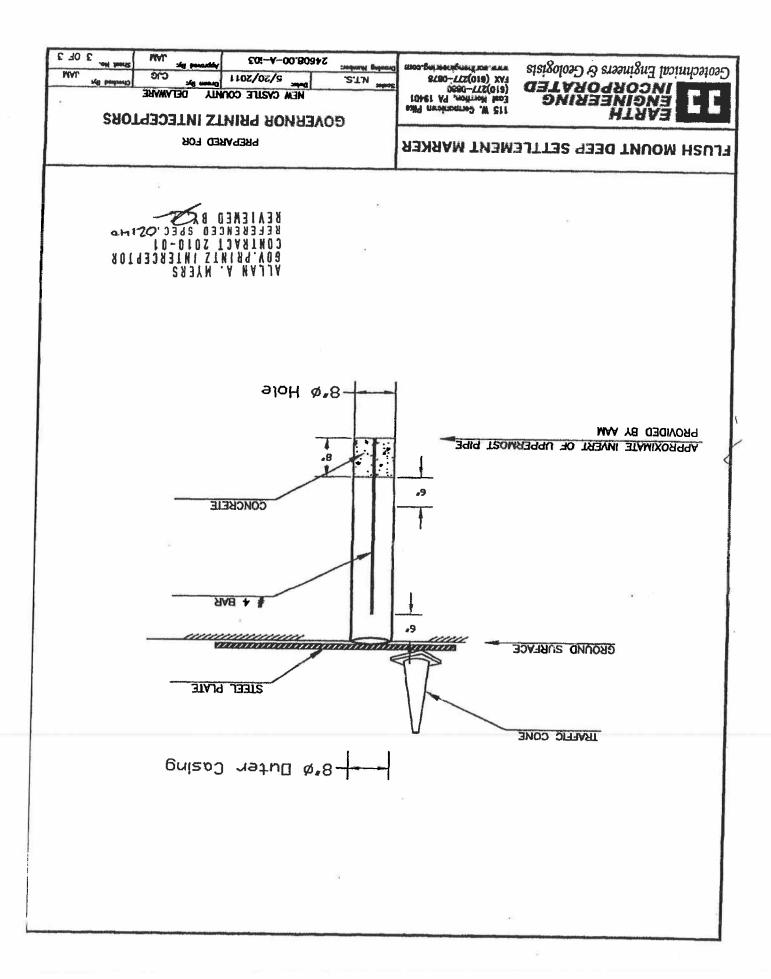
<u>Linde</u> – Oxygen and Nitrogen

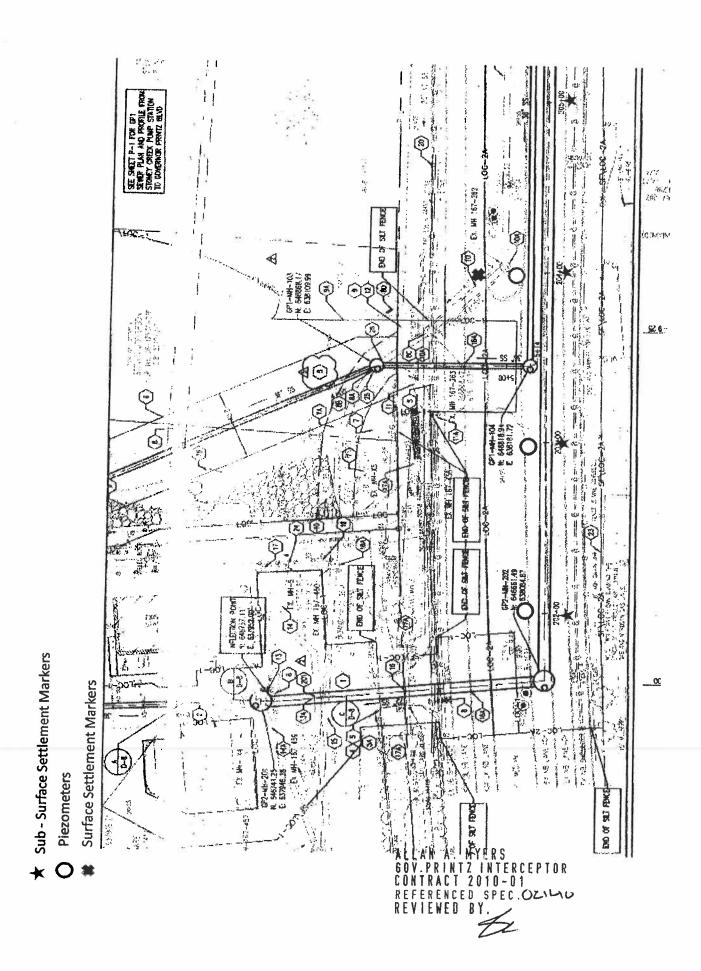
Linde will be notified as to the daily blast schedule so their control room will be on alert at the time of blasting. In the event of a rupture:

- 1. Call Linde Control Room at (302)798-6836 to shut off flow.
- 2. Call 911.

All traffic, personnel and pedestrians will be evacuated 500' away from rupture until damage and remediation is assessed.

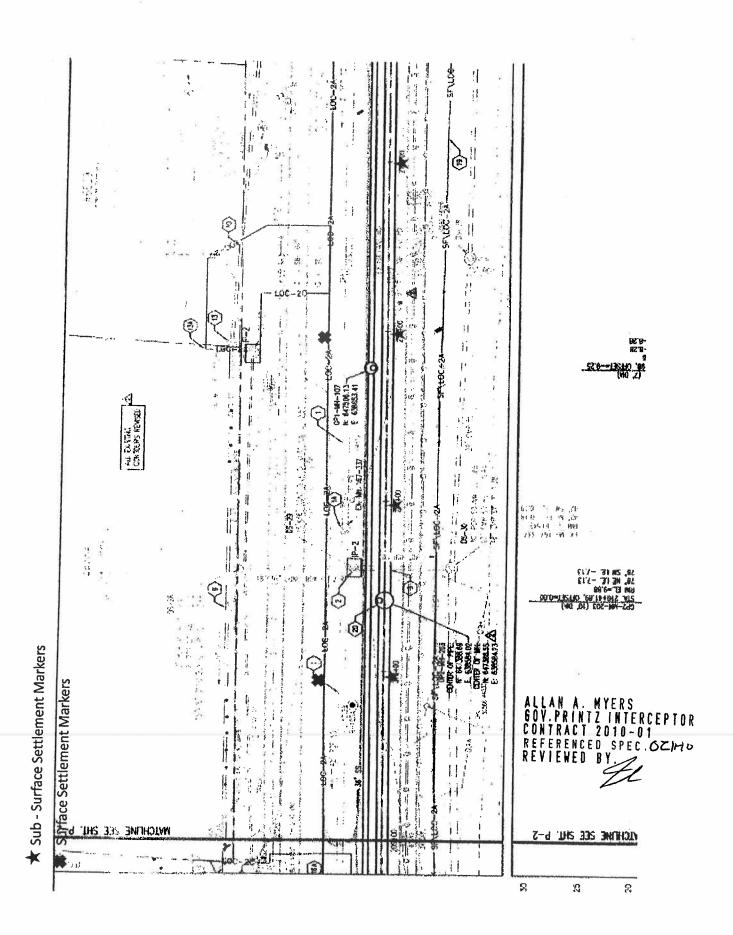
ALLAN A. MYERS 60V.PRINTZ INTERCEPTOR CONTRACT 2010-01 REFERENCED SPEC. 02740 REVIEWED BY.

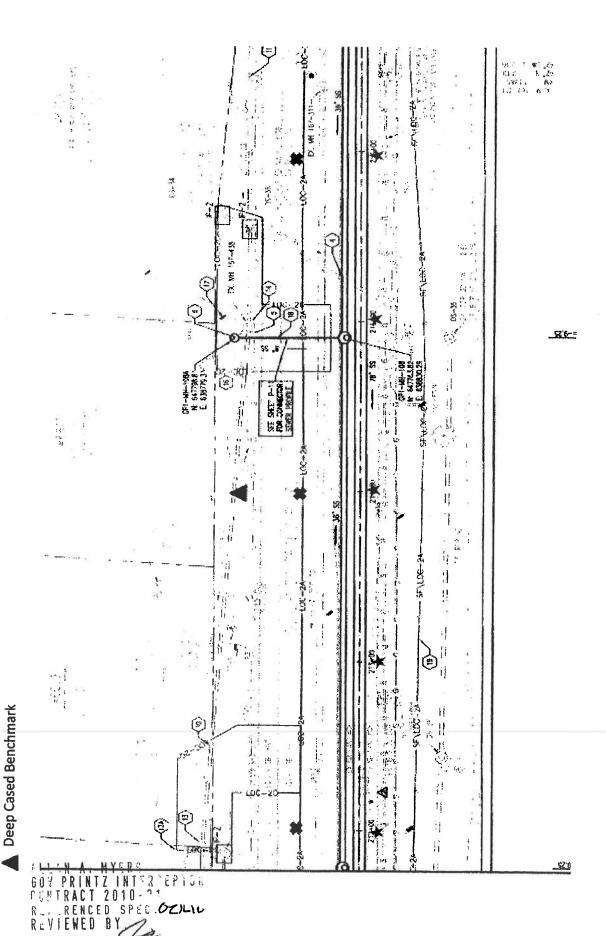




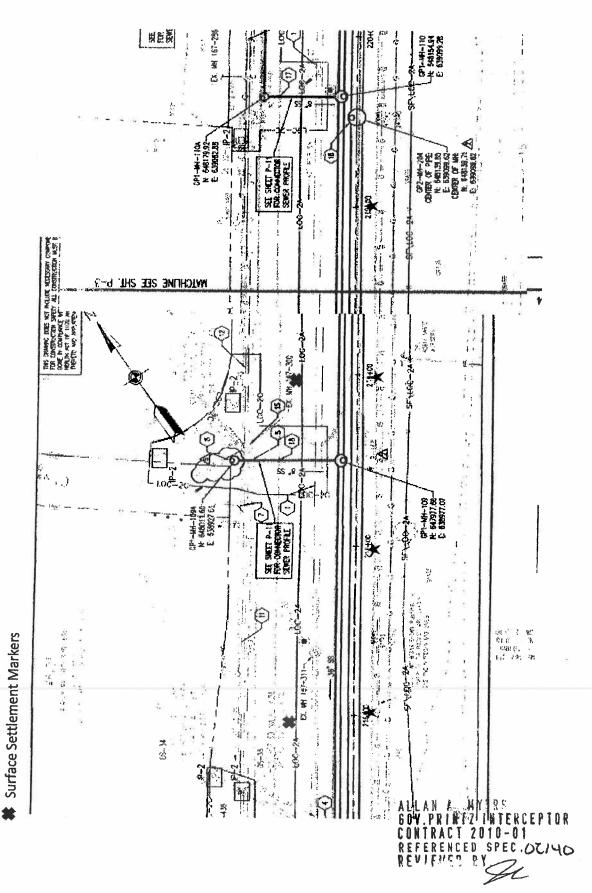
THE DRIVING DESS NOT BELLING NETERON CO FINE (DEPENDENCE) ALL CONFRICTION O ENVEL IN COMPANIES WHICH ALL MOREN ALL OF THE 1970 AND ALL ARLES NOT. BELLIN PROSEDI. ALLO ANNINEDIAND INSIGNOS. THE LATES 1 WYLCHIME ZEE ZHI' I;-6 1 Ê **%**! 66.9---T 11 00 + W 907 - A 420,01 0 200 09, 0 SF\100 -24 AM 167-352 GE-96-105 E SECTION 11 97.6--EX 44 167-531 SF\100-24 (2) F-1 FOR GP1 4 AND PROFILE FROM ECK PLUP STATION ER PRINTS BLVD ALLAN A. MYERS®
60V.PRINTZ INTERCEPTOR
CONTRACT 2010-01
REFERENCED SPEC OSLICE
REVIEWED BY

Sub - Surface Settlement MarkersSurface Settlement Markers





Sub - Surface Settlement MarkersSurface Settlement Markers



* Sub - Surface Settlement Markers

			Date:
	101	Top of Pipe Elevation: Steady State GWT Elevation:	cio-ft cio-ft
Thue	Depth to Groundwater (ft)	Groundwater Elevation (ele-ft)	Variation From Steady State (ft)
			The state of the s
			10.50
	(MASSES)		

	Thue		Time Depth to Groundwater (ft) Groundwater Elevation (ele-ft)

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CONTRACT 2010-01
REFERENCED SPEC.OZINO
REVIEWED BY

MALL TO

WATER SUPPLY SECTION DIVISION OF WATER RESOURCES 89 KINGS HIGHWAY DOVER, DELAWARE 19901

STATE OF DELAWARE DEPARTMENT OF NATURAL RESOURCES AND ENVIRONMENTAL CONTROL

http://www.drirec.state.de.us/

WELL COMPLETION REPORT MUST BE RETURNED WITHIN 30 DAYS OF CONSTRUCTION. A WELL FORMATION LOG MUST BE INCLUDED WITH THIS REPORT.

-Authorization Number-

PHONE: 302-739-9944 FAX: 302-739-7364 WELL COMPLETION REPORT

ILLEGIBLE OR INCOMPLETE FORMS WILL BE RETURNED	ogazon manadan
PLEASE PRINT OR TYPE - USE BLUE OR BLACK INK ONLY	WELL CONSTRUCTION METHOD
Permit * Local ID	o Augered o Hored o Cable Tool
Tax Map Parcel #	o Driven o Jetted o Air Rosary
Property Owner	o Mud Rotary o Reverse o Washed o Other (Specify):
Water Well Contractor, WC Lit #	Total Depth of Excavation:
Well Driller in Charge during Construction	Cunstruction Date:
CASING INSTALLATION: INNER CASING	SCREEN INSTALLATION
CASING TOP.	SCREEN TOP.
CASING BOTTOM	SCREEN BOTTOM
CASING DIAMETER.	SCREEN DIAMETER
L ASING MATERIAL.	SCREEN MATERIAL.
Outer Casing	SCREEN SLOT SIZE /THOUSANDS
(1) (2) (3)	
CASING TOP	GRAVEL PACK SIZE
CASING BOTTOM:	
CASING DIAMETER	
CASING MATERIAL	
	The state of the s
Gravel Pack From: ft To ft.	Site Plan - Include lot size and dimensions, distances from well to house, properly
Gravel Pack From: ft. To: ft. Grout Type: o Cerrient o Bentonite Glay	Site Plan - Include lot size and dimensions, distances from well to house, properly lines, nearest road, and all nearby septic systems (include suitable plut plan if
Grout Type. o Cerrient o Bentonite Clay	
Cross Type o Cerrent o Bentonite Clay 6 Other: n. To: n	lines, nearest road, and all nearby septic systems (include suitable plut plan if
Cross Type O Cerrent O Bentonite Clay O Other: R. To: R Type of Non-Grout backfill of Well Angulus	lines, nearest road, and all nearby septic systems (include suitable plut plan if
Cross Type of Bentonite Clay 6 Other: R. To: R. To: R. Type of Non-Great backfill of Well Angulus' From To.	lines, nearest road, and all nearby septic systems (include suitable plut plan if
Crout Type. o Cerrent o Bentonite Clay o Other: From: n. To: n Type of Non-Grout backfill of Well Angulus From To. State Water Level: n. v Below OR o Above Ground Surface	lines, nearest road, and all nearby septic systems (include suitable plut plan if
Cross Type of Cerrent of Bentonite Clay 6 Other: R. To: R. Type of Non-Great backfill of Well Angulus' From To.	lines, nearest road, and all nearby septic systems (include suitable plut plan if
Crout Type. o Cerrent o Bentonite Clay O Other: From: n. To: n Type of Non-Great backfill of Well Angulus: From To. State Water Level: fi. o Below OR o Above Ground Surface On (date)	lines, nearest road, and all nearby septic systems (include suitable plut plan if
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Crout Type. o Cerrent o Bentonite Clay O Other: From: n. To: n Type of Non-Great backfill of Well Angulus: From To. State Water Level: n. o Below OR o Above Ground Surface On (date) Pumping Water Level: n. On (date): After hrs: Pumping 21: GPM Was a Geophysical Log Taken? o YES o NO WELL, HEAD COMPLETION:	lines, nearest road, and all nearby septic systems (include suitable plut plan if available). (If different from original application) ALLAN A. MYERS 60V.PRINTZINTERCEPTOR CONTRACT 2010-01
Grout Type: o Cerrent o Bentonite Clay o Other: From: n. To: n Type of Non-Grout backfill of Well Annulus From To. State Water Level: n. o Below OR o Above Ground Surface On (date): Puroping Water Level: n. On (date): After hrs: Puroping at: GPM Was a Geophysical Log Taken? o YES o NO WELL HEAD COMPLETION: Type: o Priess Adapter o Standard "T"	ALLAN A. MYERS GOV.PRINTZ INTERCEPTOR CONTRACT 2010-01 REFERENCED SPEC 673-147
Grout Type: o Cerrent o Bentonite Clay o Other: From: n. To: n Type of Non-Groat backfill of Well Annulus From To: State Water-Level: fi. o Below OR o Above Ground Surface On (date): Puroping Water Level: fi. On (date): After hrs: Puroping at: GPM Was a Geophysical Log Taken? o YES o NO WELL HEAD COMPLETION: Type: o Priess Adapter o Standard "To o Well Pit o Pad Mount	ALLAN A. MYERS GOV.PRINTZ INTERCEPTOR CONTRACT 2010-01 REFERENCED SPEC 673-147
Grout Type: O Cerrent O Bentonite Clay O Other: From: R. To: R Type of Non-Groat backfill of Well Annulus! From To. Static Water Level: R. O Below OR O Above Ground Surface On (date): Pumping Water Level: R. On (date): After hrs: Pumping at: GPM Was a Geophysical Log Taken? O YES O NO WELL, HEAD COMPLETION: Type: O Paless Adapter O Standard Tr O Well Pit O Pad Mount O Other - Specify:	ALLAN A. MYERS GOV.PRINTZ INTERCEPTOR CONTRACT 2010-01 REFERENCED SPEC 673-147
Grout Type: o Cerrent o Bentonite Clay o Other: From: n. To: n Type of Non-Grout backfill of Woll Angulus! From To. State Water Level: fi. o Below OR o Above Ground Surface On (date): Pumping Water Level: fi. On (date): After hrs: Pumping at: GPM Was a Geophysical Log Taken? o YES o NO WELL HEAD COMPLETION: Type: o Paless Adapter o Standard "T" o Well Pit o Pad Mount O Other - Specify: Well Head Completed inches o Above (OR) o Below Ground Surface	ALLAN A. HYERS 60V.PRINTZ INTERCEPTOR CONTRACT 2010-01 REFERENCED SPEC.672140 REVIEWED B
Crout Type: O Cerrent O Bentonite Clay O Other: From: R. To: R Type of Non-Great backfill of Well Annulus From To. Static Water Level: R. O Below OR O Above Ground Surface On (date) Pumping Water Level: R. On (date): After hrs: Pumping at: GPM Was a Geophysical Log Taken? O YES O NO WELL, HEAD COMPLETION: Type: O Paless Adapter O Standard "T" O Well Pit O Pad Mount O Other - Specify:	ALLAN A. MYERS 60V.PRINTZ INTERCEPTOR CONTRACT 2010-01 REFERENCED SPEC.67140 REVIEWED BY
Grout Type: O Cerrent O Bentonite Clay O Other: From: R. To: R Type of Non-Grout backfill of Wall Annulus! From To. Static Water Level: R. O Below OR O Above Ground Surface On (date) Pumping Water Level: R. On (date): After hrs: Pumping at: GPM Was 4 Comphysical Log Taken? O YES O NO WELL HEAD COMPLETION: Type: O Paless Adapter O Standard "T" O Well Pit O Pad Mount O Other - Specify Well Head Completed in accordance with current regulations? O YES O NO If "NO", Picase Explain.	ALLAN A. HYERS 60V.PRINTZ INTERCEPTOR CONTRACT 2010-01 REFERENCED SPEC.672140 REVIEWED B
Grout Type. o Cerrient o Bentonite Clay o Other: From: R. To: R Type of Non-Groat backfill of Wall Annulus! From To. State Water Level: ft. o Below OR o Above Ground Surface On (date): After hrs: Pumping at: GPM Was a Geophysical Log Taken? o YES o NO WELL HEAD COMPLETION: Type: o Paless Adapter o Standard "T" o Well Pit o Pad Mount O Other - Specify Was the Well Tag attached in accordance with current regulations? O YES o NO If "NO", Please Explain.	ALLAN A. MYERS GOV.PRINTZ INTERCEPTOR CONTRACT 2010-01 REFERENCED SPEC.672MD REVIEWED BY LIBEREBY AFFERM THE INFORMATION I HAVE SUBMITTED IS ACCURATE AND CORRECT.

				Date:
			Initial Top of Instrument Elevation	elo-ft
Date	Time	Elevation	Notes	
			Walter Manager	
				¥

ALLAN A. MYERS 60V.PRINTZ INTERCEPTOR CONTRACT 2010-01 REFERENCED SPEC.OZNAS REVIEWED BY

				Bate:
SSM			Initial Top of Instrument Elevation	elo-ft
Date	Time	Elevation	Riotes .	

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CONTRACT 2010-01
REFERENCED SPEC.021-10
REVIEWED BY



GOVERNOR PRINTZ INTERCEPTOR - Section 1

DAILY LOG - MAJOR EXCAVATIONS	remperature	
DETAILED DESCRIPTION OF EXCAVATION	Rain Gauge Reading	
Depth of Excavation:	Precipitation	
Shoring Used Today		
Time of Movement of Shoring System		_
Unusual Events i.e excessive ground loss through excavation		
·		
ocation and Elevation of Soil Strata trata #1		
trata #2		
trata #3		
trata #4		
rata #5		
onstruction loading in the vicinity of instrumentation within 1	100 ft of Excavation	
	ALLAN A. MYERS GOV.PRINTZ INTERCEPTOR	
	REVIEWED BY	
